

HARVEY M BROTZMAN, P.E.
Consulting Civil and Traffic Engineer

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April 9, 2004

747-6435
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Job 22-038

Empire Energy LLC
PO Box 40
Empire, NV 89405

Attn.: Mr. Michael B. Stewart/ Ms. Donna Potter

RE: Subsidence Survey

Dear Michael & Donna,

We have recently completed the third subsidence survey for your Empire Geothermal Power Plant. The first survey was completed in June 2002 and the second in December of 2002.

We completed the surveys with the a digital level and 3 meter bar code leveling rod. Attached are the results of our survey for June 3, 2002, December 2, 2002 and March 31 & April 1, 2004. The results of the survey indicate it appears to be some change in elevation.

We are enclosing a sketch showing the locations of the benchmarks in relation to the power plant.

Please feel free to contact me if you have any questions

Sincerely,

Harvey M. Brotzman, PE

F.Y.I.

To: DT

From: Donna

Return

Keep or toss

Post-it™ F.Y.I. pad 7668

April 9, 2004

Survey Data	SFA Elev.	June 3, 2002	12/02	Change 4/2004 in Elev Basis	4,341.356	Change in elev 12/02 to 4/04
BM8	4,341.356	4,341.356	4,341.356		4,341.356	
BM 6	4,050.762	4,050.596	4,050.572	-.024'	4,050.573	+0.001
BM 4	4,048.853	4,048.617	4,048.576	-.041'	4,048.602	+0.026
BM 7	4,047.138	4,047.116	4,047.001	-.115'	4,047.073	+0.072
BM 2	4,033.231	4,033.189	4,033.177	-.012'	4,033.243	+0.066

